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(71) Applicant: SONY CORP

(72) Inventor: YASUDA KOICHI
FUKUMOTO ATSUSI
ONO MASUMI

(74) Representative:

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(57) Abstract:

PURPOSE: To carry out reproduction with ultrahigh resolution and high C/N (S/N) by using a ternary Ge-Sb-Te alloy in the phase change material layer of an optical disc adopting a reproduction system with ultrahigh resolution, partially forming a liq. phase state according to temp. distribution and varying the reflectance of the layer.

CONSTITUTION: A phase change material layer 3 made of a ternary Ge-Sb-Te alloy is formed on a transparent substrate 2 with formed information pits 1 corresponding to an information signal. When the layer 3 is irradiated with light for readout, it is partially converted into a liq. phase in

the scanning spots of the light
and the reflectance of the layer
3 is varied.

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